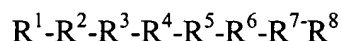


Amendments to the claims

1-48. (Previously canceled)

49. (Previously amended) A method for treating a bone disorder that results in weakened bones, wherein the bone disorder is selected from the group consisting of osteoporosis, osteoarthritis, Paget's disease, osteomalacia, periodontal disease, bone loss resulting from cancer, bone loss resulting from steroid use, and age-related loss of bone mass, comprising the administration of an amount effective for treating the bone disorder in a patient in need thereof at least one active agent comprising a sequence **consisting** of at least seven contiguous amino acids of groups R¹-R⁸ in the sequence of general formula I



wherein R¹ is selected from H and Asp,

R² is selected from Arg and Lys;

R³ is selected from the group consisting of Val and norLeu ;

R⁴ is selected from the group consisting of Tyr and homoSer;

R⁵ is selected from the group consisting of Ile, Ala, and Leu;

R⁶ is His;

R⁷ is Pro; and

R⁸ is Phe or is absent.

50-54. Canceled

55-56. (Previously canceled)

57-61. Canceled

62. (Previously amended) The method of claim 49 wherein the active agent consists of an amino acid sequence selected from the group consisting of SEQ ID NO:18.

63-64. (Previously canceled)

65. (Previously added) The method of claim 49 wherein the active agent does not consist of SEQ ID NO:1.

66. Canceled

67. (Previously added) The method of claim 49 wherein R8 is absent.

68. (Previously added) The method of claim 49 wherein the bone disorder is osteoporosis.
69. (Previously added) The method of claim 49 wherein the bone disorder is osteoarthritis.
70. (Previously added) The method of claim 49 wherein the bone disorder is Paget's disease.
71. (Previously added) The method of claim 49 wherein the bone disorder is osteomalacia.
72. (Previously added) The method of claim 49 wherein the bone disorder is osteomalacia.
73. (Previously added) The method of claim 49 wherein the bone disorder is periodontal disease.
74. (Previously added) The method of claim 49 wherein the bone disorder is bone loss resulting from cancer.
75. (Previously added) The method of claim 49 wherein the bone disorder is age-related loss of bone mass.